The
RKTN™
Series

Bluetooth Mesh Networked Control Enabled
LED Troffer Retrofit

RKTN™

PacLights

5 YEAR WARRANTY

Bluetooth Mesh
Networked Control Enabled
LED Troffer Retrofit

C UL US LISTED **DLC LISTED PREMIUM** **OUTPUT & CCT FIELD ADJUSTABLE** **NLC NETWORKED CONTROL ENABLED** **MOTION CONTROL OPTION** **EMERGENCY BACKUP OPTION**

KEY FEATURES
100,000-Hour LED lifespan
Bluetooth Mesh Networked Control enabled on all models
App-adjustable CCT & Lumen standard on all models
Optional **motion sensor** available
Battery backup option available

TECHNICAL SPECIFICATIONS

COMPLIANCE

UL Listed
UL 1598 Suitable for damp locations

IESNA LM79 & LM-80 Testing
Paclights LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

DLC Qualification
Selected models of this product are on the Design Lights Consortium (DLC) Qualified Products List and are eligible for rebates from DLC Member Utilities. To view our DLC qualified products, please consult the DLC Qualified Products List at www.design-lights.org/qpl

LED CHARACTERISTICS

LEDS
Long-life, high-ecacy, surface-mount LEDs

Lifespan
100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

Color Rendering Index
>80

Color Uniformity
PacLights' range of Correlated Color Temperature follows the guidelines of the American National Standard for Specications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017

OTHER

5-Year Limited Warranty**
The PacLights 5-year, limited warranty covers light output, driver performance and paint finish.

**PacLights's warranty is subject to all terms and conditions found at paclights.com/warranty

CONSTRUCTION

Ambient Temperature
Suitable for up to 45° C (113° F) ambient temperature

Cold Weather Starting
The minimum starting temperature is -4 F°/-20° C

Housing
Durable cold rolled steel housing provides strength and uniformity. Luminaire is pre-painted to enhanced smooth finish.

Installation
Replace existing 2x2, 2x4, 1x4 recessed troffers, by utilizing the existing fixture housing. The kit provides all the components needed to perform the change out, completely assembled within the frame. The kit fits for both air return troffers and standard troffers.

Green Technology
Mercury and UV free, and RoHS compliant. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

Lens
Frosted PMMA lens

ELECTRICAL

Driver
Bluetooth mesh networked control module integrated and Enabled.
Continuous dimming with smart device APP or bluetooth networked remote/wall switch, can be dim to off.
Produces no greater than 30 percent flicker at 200 Hz or below when paired with control devices per CEC Title 24 JA10.
Wattage (APP-Trimmable):
        RKTN-22D30: 30w; RKTN-24D45: 45w; RKTN-14D30: 30w
Input Voltage: 120-277V, 50-60 Hz
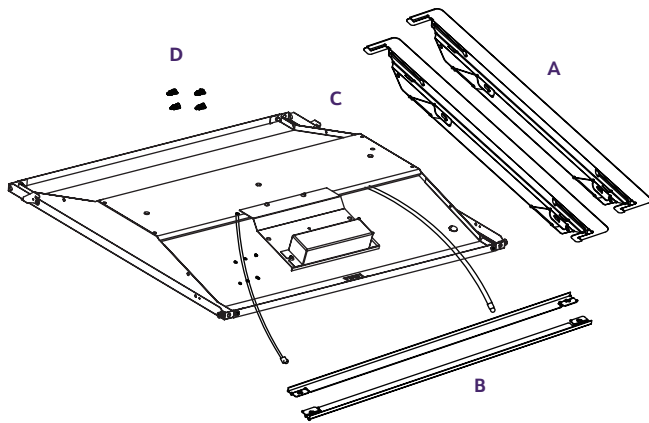Power Factor : > 0.96; THD < 8%
Input Current: RKTN-22D30: 0.28A (120v); 0.16A (208v); 0.14A (240v); 0.12A (277v).
            RKTN-24D45: 0.42A (120v); 0.24A (208v); 0.21A (240v); 0.18A (277v).
            RKTN-14D30: 0.28A (120v); 0.16A (208v); 0.14A (240v); 0.12A (277v).

RKTN™

TECHNICAL SPECIFICATIONS Continued

THE KIT

| KIT COMPONENTS	QTY
A. End Plates	2
B. Side Plates	2
C. Door Assembly Body	1
D. Self-tapping Screws	4

RETROFIT

RKTN series LED troffer retrofits comes completely assembled as a lensed kit. It requires only a few minutes to install, reduces labor costs compared with installing the whole new fixture, and reduces waste.

The Troffer Retrofit Kit provides the ideal way to replace existing 2x2, 2x4, 1x4 recessed troffers, by utilizing the existing fixture housing. The kit provides all the components needed to perform the change out quickly and efficiently, allowing for system upgrades without disturbing the ceiling.

The LED troffer retrofit is completely assembled within the frame. With its special design, the kit fits for both air return troffers and standard troffers.
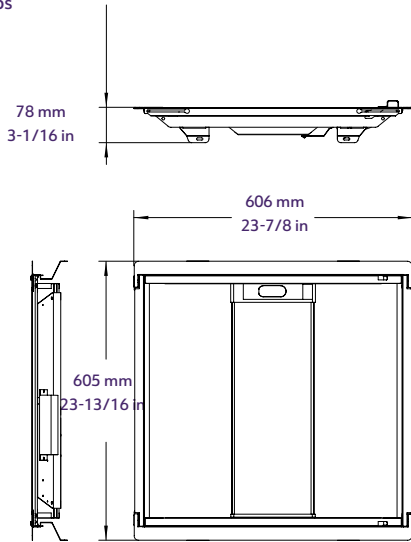

Existing Troffer Housing

RKTN Troffer Retrofit

Ceiling T-Bar Grid
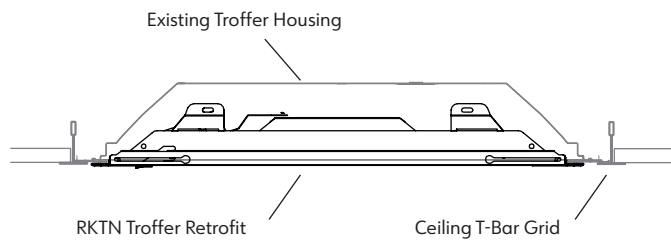
Existing Troffer Housing	Required Housing Inner Height
2' x 2'	78mm (3-1/16 in)
2' x 4'	78mm (3-1/16 in)
1' x 4'	100mm (3-15/16 in)

Lensed Fluorescent Troffers

Parabolic Fluorescent Troffers

RKTN Retrofited LED Troffer

RKTN™

TECHNICAL SPECIFICATIONS Continued

RKTN - 22D30 (2x2 Ft)

Weight 8.7 lbs

78 mm
3-1/16 in

606 mm
23-7/8 in

605 mm
23-13/16 in

RKTN - 24D45 (2x4 Ft)

Weight 14.1 lbs

78 mm
3-1/16 in

606 mm
23-7/8 in

1215 mm
47-13/16 in
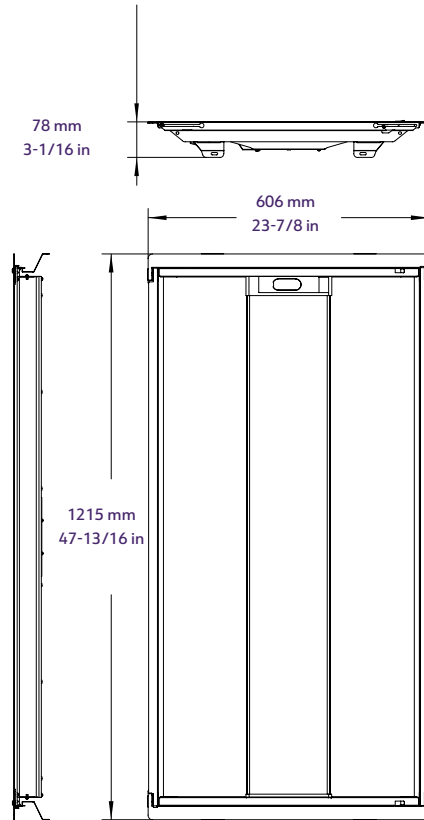
RKTN - 14D30 (1x4 Ft)

Weight 8.1 lbs

77 mm
3 in

302 mm
11-7/8 in

1215 mm
47-13/16 in
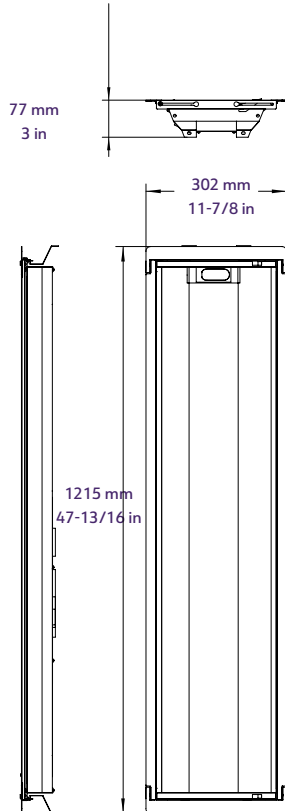
FINISHES	
all models	White

RKTN™

PacLights

FIELD ADJUSTABLE Standard

APP-ADJUSTABLE CCT & LUMEN

Trim to the desired output lumen by percentage, or select light color temperature by using the smart device APP.

OUTPUT & CCT FIELD ADJUSTABLE

CCT can be adjusted to 3000/3500/4000/5000K, and lumen output (high trim) can be set to as low as 50%.

EMERGENCY BACKUP Optional

EMERGENCY BACKUP (-EM)

EMERGENCY BACKUP OPTION

RKTN series emergency backup models works out of the box to save time and cost in the installation. When there is a power outage, the emergency backup driver and battery will power the LEDs of RKTN to an brightness of 1,200 lumen for at least 90 mins.

Note: -EM option will not provide battery backup for RKTN intergrated bluetooth networked components, a RTC device (purchased separately) is recommended per zone if scheduling function is required, otherwise a local time sync (using the smart device APP) will be required after each power outage.

CONTROL Standard

Networked Lighting Controls

NLC NETWORKED CONTROL OPTION

All models of RKTN are Bluetooth Networked Control (NLC) Enabled.

Network Lighting Controls (NLC) offer Luminaire Level Lighting Control (LLLC) based on Bluetooth-enabled Mesh Networking of Luminaires. Individual addressability enables luminaires to be communicated with each other within the zone/network. Luminaires can be grouped, trim and controlled by using the smart device app or connected wall switches. Scheduling, scene and sensors can be added for automation among the lights within the zone/group.

iOS/Andriod APP will be used to com-missioning or customize settings of the networked controls.

(-WBP) Optional plug-and-play PIR occupancy and daylight harvesting sensor.

PERFORMANCE

RKTN - 22D30 (2x2 Ft)

30W	3000K Warm	3500K Warm	4000K Neutral	5000K Daylight
LUMENS	3,750	3,780	3,810	3,840
LM/W	125	126	127	128

RKTN - 24D45 (2x4 Ft)

45W	3000K Warm	3500K Warm	4000K Neutral	5000K Daylight
LUMENS	5,625	5,670	5,715	5,760
LM/W	125	126	127	128

RKTN - 14D30 (1x4 Ft)

30W	3000K Warm	3500K Warm	4000K Neutral	5000K Daylight
LUMENS	3,750	3,780	3,810	3,840
LM/W	125	126	127	128

* Max lumen values are shown for each CCT, can be trimmed to the desired output lumen (by percentage) in the App.

ORDERING INFORMATION

RKTN™

Family	Model	Optional Function
RKTN		

22D30	2ft x 2ft; 30w Trimmable; 3000/3500/4000/5000K CCT Adjustable	
24D45	2ft x 4ft; 45w Trimmable; 3000/3500/4000/5000K CCT Adjustable	
14D30	1ft x 4ft; 30w Trimmable; 3000/3500/4000/5000K CCT Adjustable	

WBP	PIR and daylight sensor
EM	Emergency battery backup

NETWORKED CONTROLS
MADE EASY

Keilton Networked Controls, a DLC® Qualified Networked Lighting Controls Product, make it easy for facilities to save energy, improve occupancy comfort and achieve code compliance by adding Luminaire Level Lighting Controls (LLLC) to indoor and outdoor applications. It allows for easy field installation of sensors and network nodes with selected PacLights controls ready fixtures. Using the Keilton app, nodes can be commissioned without the need for a gateway or internet access.

Keilton®   DLC LISTED

A Cost-Effective Decentralized Architecture

Direct Mobile Device Provisioning

Best-In-Class Scale, Performance & Reliability
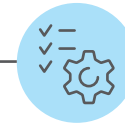
INSTALL   **COMMISSION**   **CONTROL**

FEATURES

- Luminaire Level Lighting Control (LLLC)
- Bluetooth-enabled Mesh Networking of Luminaires and Devices
- Individual Addressability, address individual or multiple luminaires
- High-end and Low-end Trim
- Zoning & Grouping
    - ◊ Add and control up to 100 devices per zone
    - ◊ Add unlimited zones to scale for bigger installation
    - ◊ Create unlimited groups (combination of sensor or network nodes) within a zone
    - ◊ Link and control the whole group or zone
- Scene control
    - ◊ Create and link scenes to individual lights or groups within a zone
    - ◊ Select scene with App or wall switch
- Time Scheduling for individual lights, groups or scenes
- Sensors integrated with BLE, occupancy and daylight sensing
- Multi-level Dimming, Daylight Harvesting and Occupancy controls
- Manual/Automatic ON/OFF and Automatic partial ON/OFF control capability
- Control via smart device App or wireless wall switch
- Secure commissioning with Keilton App
- Up to 100 ft node-to-node and 50 ft node-to-device
- Other control features to meet code compliance

NETWORKED CONTROL
ENABLED

RKTN series

OPTIONAL SENSOR ADD-ON

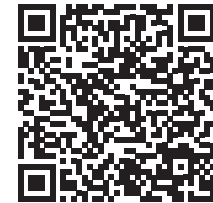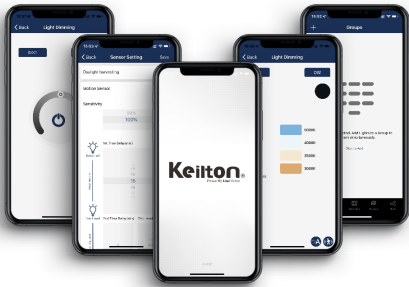| SKU		DESCRIPTION	FUNCTION	OPTION ORDER CODE
KEILTON-IFS108E		KEILTON IFS108E ECO PIR DLH SENSOR	Enable sensor functionality to a NLC node - PIR occupancy & daylight (harvesting) sensing.	**-WBP**

without sensor

with sensor installed
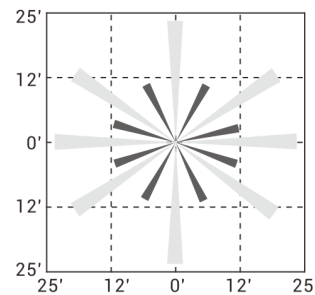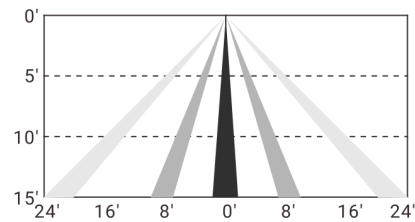
Height 15ft

Keilton and its logo is a trademark of Litetrace; **PacLights** and its logo is a trademark of PacLights, LLC
DLC and its logo is a trademark of DesignLights Consortium.
Keilton is the qualified system name listed on the DLC Networked Lighting Controls QPL.

COMMISSION & CONTROL SMART DEVICE APP

Download on the App Store

GET IT ON Google Play

NETWORKED WALL SWITCH

SKU	DESCRIPTION	FUNCTION	APPLICATION
KEILTON-WP1025	KEILTON WP1025 BATTERY 5 BUTTON BLUETOOTH DIMMER SWITCH W/ SCENE CONTROLLER	Switch on/off, dim, or select up to 3 scenes, of an individual light or a group of lights (defined in the commissioning App). Battery powered.	Field installed, ideal for flexible or additional wall switch placement, indoor
KEILTON-WP1017S	KEILTON WP1017S AC 7 BUTTON BLUETOOTH DIMMER SWITCH W/ SCENE CONTROLLER	Switch on/off, dim, or select up to 4 scenes, of an individual light or a group of lights (defined in the commissioning App). 120-277v AC powered.	Field installed, ideal for retrofitting existing wall switch, neutral wire (AC) is required, indoor

OTHER

SKU	DESCRIPTION	FUNCTION	APPLICATION
KEILTON-CR01	KEILTON CR01 ENERGY MONITORING USB DONGLE W/ RTC	Records energy consumption of the assigned Zone. Offers real-time-clock (RTC) Sync of the Zone. USB (5v) powered, internal battery for RTC.	Field installed, one per Zone to satisfy energy audit, or to provide off-the-App time/schedule recovery from power-outage of the site.